

SEPARATE SOLIDIFICATION OF BUILD MATERIAL AND SUPPORT  
MATERIAL IN SOLID FREEFORM FABRICATION SYSTEM

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ABSTRACT OF THE DISCLOSURE

The present invention is drawn to a solid freeform fabrication system for  
10 producing a three-dimensional object. The system can include a dispensing  
system and a curing system. The dispensing system can be adapted to  
separately dispense build material and support material, wherein the build  
material and the support material are adapted to contact one another at an  
interface after being dispensed. The curing system can be adapted to harden  
15 the build material after being dispensed but before the support material is  
dispensed, wherein mixing between the build material and the support material  
is inhibited at the interface.